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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,971	09/26/2005	David T Scadden	61925US(51588) 1957	
21874 EDWARDS A	7590 05/30/2007	EXAMINER		
EDWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874			BELYAVSKYI, MICHAIL A	
BOSTON, MA 02205			ART UNIT	PAPER NUMBER
			1644	
			MAIL DATE	DELIVERY MODE
			05/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/521,971	SCADDEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Michail A. Belyavskyi	1644			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
<ol> <li>Responsive to communication(s) filed on 21 Ja</li> <li>This action is FINAL.</li> <li>Since this application is in condition for alloward closed in accordance with the practice under E</li> </ol>	action is non-final.  nce except for formal matters, pro				
Disposition of Claims					
<ul> <li>4) Claim(s) 1-40 is/are pending in the application 4a) Of the above claim(s) is/are withdraw</li> <li>5) Claim(s) is/are allowed.</li> <li>6) Claim(s) is/are rejected.</li> <li>7) Claim(s) is/are objected to.</li> <li>8) Claim(s) 1-40 are subject to restriction and/or of</li> </ul>	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposite and accomposite and any objection to the Replacement drawing sheet(s) including the correct and the second sheet of the second sheet and the second sheet	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	∋ 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)    Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO/SB/08)   Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Po 6) Other:	nte			

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## **DETAILED ACTION**

1. Applicant's amendment, filed 01/21/05 is acknowledged.

Claims 1- 40 are pending.

## Restriction

1. Restriction is required under 35 U.S.C. 121 and 372. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted:

- I. Claims 1-8 are drawn to a method for preparing a population of cell for enhancing the growth or maintenance of hematopoietic progenitor cells
- II. Claims 9-11 are drawn to a method for enhancing the growth and maintenance of hematopoietic progenitor cells comprising contacting hematopoietic progenitor cells with cell expressing a PTH/PTHrP receptor.
- III. Claims 12-22 are drawn to a method for enhancing the growth and maintenance of hematopoietic progenitor cells and enhancing mobilization of hematopoietic progenitor cells in a subject each comprising administering to a subject an agent that activates a PTH/PTHrP receptor.
- IV. Claims 23-24 are drawn to a method for preparing hematopoietic progenitor cell.
- V. Claim 25 is drawn to an isolated population of stromal cells treated with PTH.
- VI. Claims 26-28 are drawn to a method for stimulating immune cell expansion, comprising contacting immune cells with cell expressing a PTH/PTHrP receptor.

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VII. Claims 29-37 are drawn to a method for stimulating immune cell expansion in a subject, comprising administering to a subject an agent that activates a PTH/PTHrP receptor.

VIII. Claims 38-40 are drawn to a method for enhancing hematopoietic cell growth in vitro, comprising contacting said cells with a population of cell enriched for osteoblasts.

3. The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

As was also found in the International Search Report, the Invention of Group I was found to have no special technical feature that defined the contribution over the prior art of WO 2004011484.

WO' 484 teaches a method for preparation a population of cell for enhancing the growth of hematopoietic progenitor cells.

Since Applicant's Inventions do not contribute a special technical feature when viewed over the prior art they do not have a single general inventive concept and so lack unity of invention.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 5. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840 The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571/272-0841.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAIL BELYAVSKYI, PH.D. PATENT EXAMINER

5/25/07